No. 200000269

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Paragon Seed, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR [illegible]PORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE [illegible]E PURPOSE , OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE [illegible] OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT P[illegible]Y THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Trojan'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of Washington, D.C. this sixth day of September, in the year two thousand and six.*

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[illegible]griculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions.* FORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a).

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*
Paragon Seed, Inc.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER
T79

3. VARIETY NAME
Trojan

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
P. O. Box 1906
Salinas, California 93902-1906

6. TELEPHONE *(include area code)*
831-753-2100

6. FAX *(include area code)*
831-753-1470

FOR OFFICIAL USE ONLY

PVPO NUMBER 0

FILING DATE: June 15, 2000

7. GENUS AND SPECIES NAME
Lactuca sativa L.

8. FAMILY NAME *(Botanical)*
Compositae

9. CROP KIND NAME *(Common name)*
Lettuce Crisphead/Iceberg

FEES RECEIVED
FILING AND EXAMINATION FEE: $ 2450.00
DATE: June 15, 2000
CERTIFICATION FEE: $ 1608.00
DATE: Aug 4, 2006

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.) (Common name)*
Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
California

12. DATE OF INCORPORATION
March 7, 1994

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS
Victor Heintzberger
P. O. Box 1906
Salinas, California 93902-1906

14. TELEPHONE *(include area code)*
831-753-2100

15. FAX *(include area code)*
831-753-1470

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow instructions on reverse)*

a. ☒ Exhibit A. Origin and Breeding History of the Variety
b. ☒ Exhibit B. Statement of Distinctness
c. ☒ Exhibit C. Objective Description of the Variety
d. ☒ Exhibit D. Additional Description of the Variety
e. ☒ Exhibit E. Statement of the Basis of the Applicant's Ownership
f. ☒ Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in a public repository)*
g. ☒ Filing and Examination Fee ($2,450), made payable to "Treasurer of the United States" *(Mail to PVPO)*

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)?*
☐ YES *(If "yes," answer items 18 and 19 below)* ☒ NO *(If "no," go to item 20)*

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☐ NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
☒ YES *(If "yes," give names of countries and dates)* ☐ NO
California, USA Date of first sale June 17, 1999

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT *(Owner(s))*		SIGNATURE OF APPLICANT *(Owner(s))*	
NAME *(Please print or type)* Victor Heintzberger		NAME *(Please print or type)*	
CAPACITY OR TITLE PRESIDENT	DATE 6/9/2000	CAPACITY OR TITLE	DATE

Exhibit A

Breeding History Iceberg Lettuce 'Trojan'

The Iceberg lettuce variety Trojan was developed by conventional cross breeding techniques by Paragon Seed, Inc. personnel.

F_1 seed was obtained from a hand pollinated cross between the crisphead lettuce variety Grande and the crisphead lettuce variety Seagreen. The cross was made near Corcoran, California in July of 1994 using the technique outlined by Ryder and Johnson in "Mist Depollination of Lettuce Flowers", published in HortScience, Vol. 9(6), 1974.

At the time of crossing, Grande was a large framed, large headed commercially viable iceberg lettuce best adapted for spring harvest in the coastal areas. Grande most closely resembles the variety Salinas.

The pollen parent, Seagreen, was developed by Dr. Edward J. Ryder, U.S. Agricultural Research Station, Salinas, California. Seagreen was released in 1981, experimental designation 72-160M, and at that time showed excellent tolerance to lettuce big vein disease. Seagreen most closely resembles the variety Vanguard. A description of the variety Seagreen is in HortScience Vol. 16(4), August 1981.

The cross was designated 'Al'. F_1 seed of the cross designated 'Al' was harvested in August of 1994.

On November 18, 1994, seedlings of various crosses made the past summer were started in petrie dishes and transferred to soil pots in the greenhouse for the express purpose of producing seed to be harvested in the spring of 1995. At the five to ten leaf stage, plants were irrigated with water that was filtered through a decomposed granite soil known to be infected with the lettuce 'big vein' agent. Plants were kept well watered to imitate water logged conditions found in spring lettuce plantings which is conducive to the 'big vein' disease.

Exhibit A

Breeding History Iceberg Lettuce 'Trojan'

Plants were observed in January and February for 'big vein' symptoms, and plants which were showing signs of 'big vein' were eliminated. On June 15, 1995, a small quantity of viable seed was pinched from the mother plant (A1-4), germinated, and transported to Corcoran, California to produce seed under mosaic free field conditions.

F_2 seed color was black.

In October of 1995, F_3 seed was harvested from the A1-4 line. From these plants, a selection A1-4-3 was noted to have brown seed color. Seed color of the other selections was black.

In December of 1995 and January, 1996, field trials were established in the Salinas Valley of California to evaluate the performance of the A1-4 lines. The line A1-4-3 appeared lighter in color than the maternal parent 'Salinas', with a leaf type more similar to 'Vanguard'. This line also showed strong big vein resistance similar to the paternal parent 'Seagreen'. Head size was larger than Grande and Seagreen, more similar to the spring iceberg lettuce variety Jupiter. The level of head formation was very good, very few non-heading types were noted, whereas, non-heading types were noted in other breeding lines.

Based on field observations for uniformity, size, big vein resistance, and unique seed color, a small seed increase was scheduled for the summer production of 1997. The experimental crop was harvested with the designation of 'T79'. This F_4 mass increase was observed in the fall of 1997 in Yuma, Arizona, and in 1998 spring trials in the coastal regions of California. In the Yuma, Arizona trials observed in late December, 1997, the big vein resistance was superior to Mid Queen, Valley Queen, and Annie. Single plant selections of the line 'A1431' were evaluated for type, head shape, frost tolerance, big vein resistance, core height, internal color, texture, bolt tolerance, and smooth butt appearance.

In the spring of 1998, the sub line A1431-3 was selected as stock seed to produce the 1998 experimental crop of 'T79'. This crop was produced in the San Joaquin Valley of California near Corcoran.

Exhibit A

Breeding History Iceberg Lettuce 'Trojan'

Occasional variants were noted, specifically, a romaine type plant that is commonly noted in iceberg lettuce seed production. This variant was noted to appear approximately two to three times in one acre of production. (3/26,500 plants). This type of non-heading plant was described by Pearson (1956) in a study of a nonheading rogue in 'Imperial 456'. This rogue was controlled by a highly mutable, incompletely dominant allele. Plants of this type are removed from our crop production fields by trained crews. Seed was harvested in the fall of 1998. Seed color of the 1998 crop was homozygous for brown seed color.

Seed of the 1998 crop was planted and evaluated in Yuma, Arizona in the fall of 1998 and in the coastal production areas of California during the spring of 1999. In the desert areas, the big vein resistance held up very well, but the variety did not appear to have the wrapper leaf length to protect the more exposed style of heading.

In the coastal areas, the variety produced heads of exceptional quality under conditions of moderate to severe big vein. The experimental variety 'T79' produced high yields under conditions that reduced yields and quality of the varieties Jupiter, Pybas 251, Spreckels and Bayview.

In the summer of 1999, commercial quantities of the variety 'T79' was again produced by Paragon Seed, Inc. near Corcoran, California. The source of stock seed used to produce this crop was derived from the 1998 crop. In the 1998 seed crop, a four bed pass fifty feet in length was staked and carefully rogued by the breeder for uniformity of type at the heading stage, then carefully rogued again at bolting stage. Stock seed was harvested from this plot which resulted in a mass selection with a high degree of uniformity to type.

Trojan, or experimental 'T79', is the result of a hand pollinated cross, four generations of single plant selections and two generations of mass selection.

Trojan has been observed for six generations of reproduction and during the seed increase period and is stable and uniform. No variants were observed.

Exhibit B

Novelty Statement Iceberg Lettuce 'Trojan'

Trojan is a large framed, large headed 'vanguard' type crisphead lettuce best adapted for early spring harvest in the far west coastal production areas of California.

Trojan was bred, screened, selected and developed to enable lettuce growers to produce marketable size lettuce in areas and periods when weather and diseases make it difficult for iceberg lettuce to develop into marketable sizes, defined as "24's), or twenty four heads per cardboard carton.

Trojan carries the big vein resistance of the parental line Seagreen, with the preferred textural qualities of the variety Grande. (Big Vein is expressed primarily as vein clearing and stiffening of the outer leaves giving the plant a bushy appearance. Symptoms are most commonly expressed during periods of low air temperature and in heavy wet soils.)

RHD 7/5/06

~~The leaf color of~~ Trojan most closely resembles Seagreen, the pollen parent. Trojan leaf color is RHS 143 B, whereas, leaf color of Seagreen is RHS 143 A.
The leaf reflectance of Seagreen is dull, whereas, the reflectance of Grande is slightly glossy, most similar to the variety Salinas.

Trojan is distinct from Seagreen based on three measurable traits. Trojan produces heads that are 1) larger in circumference than Seagreen, 2) heavier head weight than Seagreen, and 3) earlier maturing based on solidity (1=soft, 3=firm, 5=hard)
See attached data for spring trials 2006.

The butt shape of Trojan is 'Slightly Concave', whereas, the butt shape of Seagreen is 'Flat'.

The seed color of Trojan is brown, whereas, the seed color of Seagreen is black.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION

EXHIBIT C

OBJECTIVE DESCRIPTION OF VARIETY
LETTUCE *Lactuca sativa*

NAME OF APPLICANT (S)
Paragon Seed, Inc..

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)
P. O. Box. 1906
Salinas, California 93902-1906

FOR OFFICIAL USE ONLY
PVPO NUMBER 200000269

VARIETY NAME
Trojan

EXPERIMENTAL DESIGNATION
T 79

Place numbers in the boxes for the characters which best describe this variety. Measured data should be the mean of an appropriate number (at least 10) of well spaced plants. Royal Horticultural Society or any recognized color standard may be used to determine plant colors.

The location of the test area is: King City, California

Color System Used: Royal Horticultural Chart

1. PLANT TYPE: *(See list of suggested check varieties page 4.)*

[0 6]

01=Cutting/Leaf
02=Butterhead
03=Bibb
04=Cos or Romaine
05=Great Lakes Group
06=Vanguard Group
07=Imperial Group
08=Eastern (Ithaca) Group
09=Stem
10=Latin
11=OTHER

2. SEED:

COLOR: [3] 1=White (Silver Gray) 2=Black (Gray Brown) 3=Brown (Amber)

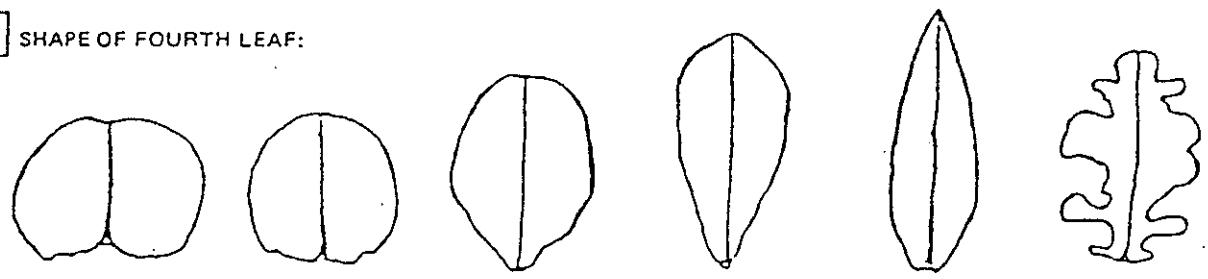
LIGHT DORMANCY: [2] 1=Light Required 2=Light Not Required

HEAT DORMANCY: [1] 1=Susceptible 2=Not Susceptible

3. COTYLEDON TO FOURTH LEAF STAGE: NOTE: Provide a color photograph or photocopy of the fourth leaf from 20 day old seedling grown under optimal conditions.

[3] SHAPE OF COTYLEDONS: 1=Broad 2=Intermediate 3=Spatulate

[3] SHAPE OF FOURTH LEAF:



1 2 3 4 5 6

[1 6] LENGTH/WIDTH INDEX OF FOURTH LEAF: L/W x 10

[3] APICAL MARGIN:
[3] BASAL MARGIN:
1=Entire 2=Creanate/Gnawed 3=Finely Dentate 4=Moderately Dentate 5=Coarsely Dentate 6=Incised 7=Lobed 8=OTHER *(specify)*

[2] UNDULATION: 1=Flat 2=Slight 3=Medium 4=Marked

[3] GREEN COLOR: 1=Yellow Green 2=Light Green 3=Medium Green 4=Dark Green 5=Blue Green 6=Silver Green 7=Gray Green

ANTHOCYANIN:

[1] DISTRIBUTION: 1=Absent 2=Margin Only 3=Spotted 4=Throughout 5=OTHER *(specify)*

[0] CONCENTRATION: 1=Light 2=Moderate 3=Intense

[1] ROLLING: 1=Absent 2=Present

[2] CUPPING: 1=Uncupped 2=Slight 3=Markedly

[1] REFLEXING: 1=None 2=Apical Margin 3=Lateral Margins

4. MATURE LEAVES *(observe harvest-mature outer leaves)*:

NOTE: Provide color photo of harvest-mature leaves which accurately shows color and margin characteristics. 2 0 0 0 0 2 6 9 4

MARGIN:

[2]	INCISION DEPTH: *(deepest penetration of the margin)*	1=Absent/Shallow (Dark Green Boston)	2=Moderate (Vanguard)	3=Deep (Great Lakes 659)
[4]	INDENTATION: *(finest divisions of the margin)*	1=Entire (Dark Green Boston) 2=Shallowly Dentate (Great Lakes 65)	3=Deeply Dentate (Great Lakes 659) 4=Crenate (Vanguard)	5=OTHER *(specify)*
[2]	UNDULATION OF THE APICAL MARGIN:	1=Absent/Slight (Dark Green Boston)	2=Moderate (Vanguard)	3=Strong (Great Lakes 659)
[4]	GREEN COLOR:	1=Very Light Green (Bibb) 2=Light Green (Minetto)	3=Medium Green (Great Lakes) 4=Dark Green (Vanguard)	5=Very Dark Green 6=OTHER

ANTHOCYANIN *(grown at or below 10 C)*:

[1]	DISTRIBUTION:	1=Absent 2=Margin Only (Big Boston)	3=Spotted (Calif. Cream Butter) 4=Throughout (Prize Head)	5=OTHER *(specify)*
[0]	CONCENTRATION:	1=Light (Iceberg)	2=Moderate (Prize Head)	3=Intense (Ruby)
[3]	SIZE:	1=Small	2=Medium	3=Large
[1]	GLOSSINESS:	1=Dull (Vanguard)	2=Moderate (Salinas)	3=Glossy (Great Lakes)
[2]	BLISTERING:	1=Absent/Slight (Salinas)	2=Moderate (Vanguard)	3=Strong (Prize Head)
[2]	LEAF THICKNESS:	1=Thin	2=Intermediate	3=Thick
[2]	TRICHOMES:	1=Absent (smooth)	2=Present (spiny)	

5. PLANT *(at market stage. Choose a comparison variety appropriate for this type.)*:

[4 6] SPREAD OF FRAME LEAVES: cm This Variety [4 8] cm Sharpshooter *(specify comparison variety)*

[1 6] HEAD DIAMETER *(market trimmed with single cap leaf)*: cm This Variety [1 6] cm Sharpshooter *(specify comparison variety)*

[3]	HEAD SHAPE:	1=Flattened 2=Slightly Flattened	3=Spherical 4=Elongate	5=Non-Heading 6=OTHER
[3]	HEAD SIZE CLASS:	1=Small	2=Medium	3=Large

[2 4] HEAD COUNT PER CARTON

[6 1 7] HEAD WEIGHT: g This Variety [5 5 9] g Sharpshooter *(specify comparison variety)*

[3]	HEAD FIRMNESS:	1=Loose 2=Moderate	3=Firm 4=Very Firm

6. BUTT *(bottom of market-trimmed head)*:

[1]	SHAPE:	1=Slightly Concave	2=Flat	3=Rounded
[1]	MIDRIB:	1=Flattened (Salinas)	2=Moderately Raised	3=Prominently Raised (Great Lakes 659)

7. CORE *(stem of market-trimmed head)*:

[3 0] mm Diameter at base of head

[5.3] Ratio of head diameter/core diameter

[3 8] Core height from base of head to apex: mm This Variety [4 6] mm Sharpshooter *(specify comparison variety)*

8. BOLTING *(Give First Water Date 04/27/99)*: NOTE: First Water Date is the date seed first receives adequate moisture to germinate. This can and often does equal the planting date.

[5 6] Number of days from First Water Date to seed stalk emergence *(summer conditions)*: This Variety [6 3] Jupiter *(specify comparison variety)*

[3]	BOLTING CLASS:	1=Very Slow 2=Slow	3=Medium 4=Rapid	5=Very Rapid

[9 6] Height of mature seed stalk: cm This Variety [1 0 2] cm Jupiter *(specify comparison variety)*

BOLTING cont'd. on next page

200000269 Replaced by JRM 7/26/0

Spread of Bolter Plant *(at widest point)*:

[4][2] cm This Variety [4][0] cm Seagreen *(specify comparison variety)*

[1] BOLTER LEAVES: 1=Straight 2=Curved

[2] MARGIN: 1=Entire 2=Dentate

[2] COLOR: 1=Light Green 2=Medium Green 3=Dark Green

BOLTER HABIT:

[2] TERMINAL INFLORESCENCE: 1=Absent 2=Present

[1] LATERAL SHOOTS: *(above head)* 1=Absent 2=Present

[1] BASAL SIDE SHOOTS: 1=Absent 2=Present

9. MATURITY *(earliness of harvest-mature head formation)*:

NOTE: Complete this section for at least one season.

SEASON	Applic. 1/ #of days	Check 1/ #of days	CHECK VARIETY 2/
Spring	81	83	Seagreen
Summer	77	77	Hallmark W
Fall	90	92	Valley Queen
Winter	98	100	Seagreen

Give planting date(s), and location(s):

Spring	3/11/05	5/31/05	Bengard Ranch	Salinas, Ca.
Summer	3/25/00	6/10/00	Regus Ranch	King City, Ca.
Fall	9/27/99	12/28/99	Jack Ranch	Westmoreland, Ca.
Winter	1/24/05	5/02/05	Cherry Orchard	San Ardo, Ca.

1/ First water date to harvest. 2/ Fill in check variety name on the appropriate line.

10. ADAPTATION:

PRIMARY REGIONS OF ADAPTION *(tested and proven adapted)*: (0=Not tested 1=Not Adapted 2=Adapted)

[1] Southwest *(Calif., Ariz. desert)* [2] West Coast [0] Northeast

[0] Northcentral [0] Southeast [0] OTHER

SEASON:

[2] Spring (area West Coast) [1] Fall (area Huron, Ca.)

[1] Summer (area King City, Ca.) [1] Winter (area Yuma, Az.)

[0] GREENHOUSE: 0=Not tested 1=Not Adapted 2=Adapted

[1] SOIL TYPE: 1=Mineral 2=Organic 3=Both

8

11. DISEASES AND STRESS REACTIONS (0=Not tested; 1=Susceptible; 2=Intermediate; 3=Resistant; 4=Highly resistant; 5=Tolerant)

VIRUS

[4] Big Vein
[1] Lettuce Mosaic
[0] Cucumber Mosaic
[0] Broad Bean Wilt
[0] Turnip Mosaic
[0] Beet Western Yellows
[0] Lett. Infectious Yellows
[0] Other Virus _____

FUNGAL/BACTERIAL

[1] Corky Root Rot (Pythium Root Rot)
[0] Downy Mildew (Races _____)
[1] Powdery Mildew
[1] Sclerotinia Rot
[1] Bacterial Soft Rot (Pseudomonas spp. & others)
[1] Botrytis (Gray Mold)
[0] OTHER _____

INSECTS

[1] Cabbage Loopers
[1] Root Aphids
[1] Green Peach Aphid
[0] Other Insect _____

PHYSIOLOGICAL/STRESS

[2] Tipburn
[2] Heat
[0] Drought
[5] Cold
[0] Salt
[0] Brown Rib (Rib Discoloration, Rib Blight)
[0] OTHER _____

POST HARVEST

[1] Pink Rib
[1] Russet Spotting
[0] Rusty Brown Discoloration
[0] Internal Rib Necrosis (Blackheart, Gray Rib, Gray Streak)
[0] Brown Stain

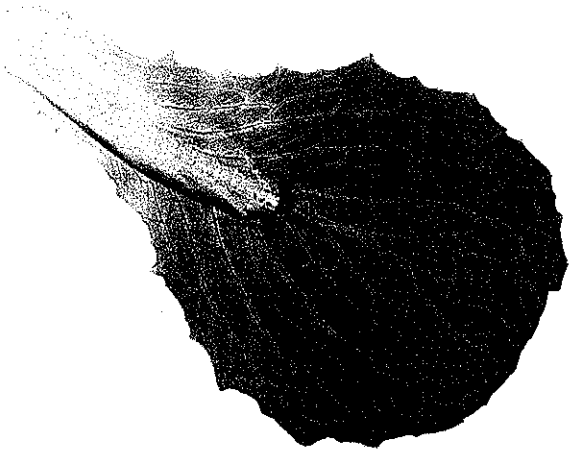
12. BIOCHEMICAL OR ELECTROPHORETIC MARKERS:

13. COMMENTS:

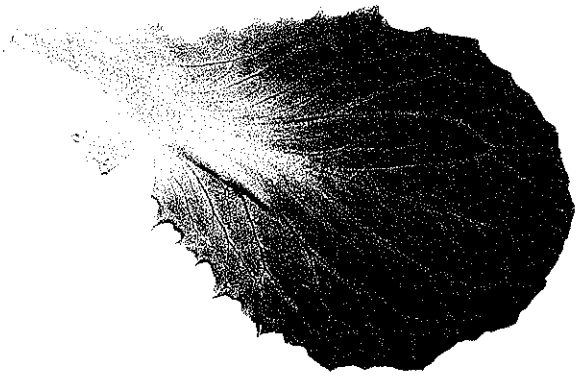
SUGGESTED CHECK VARIETIES

TYPE	CHECK VARIETY
1) CUTTING/LEAF	SALAD BOWL
2) BUTTERHEAD	DARK GREEN BOSTON
3) BIBB	BIBB
4) COS, OR ROMAINE	PARRIS ISLAND
5) GREAT LAKES GROUP	GREAT LAKES 659-700
6) VANGUARD GROUP	VANGUARD
7) IMPERIAL GROUP	VIVA
8) EASTERN GROUP	ITHACA
9) STEM	CELTUCE
10) LATIN	MATCHLESS

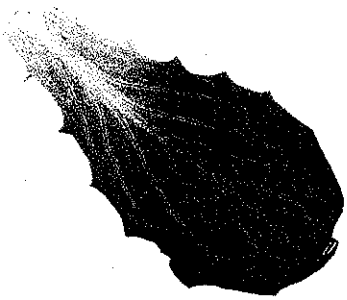
Paragon Seed, Inc. Iceberg Lettuce Trojan 200000269
PVP Number



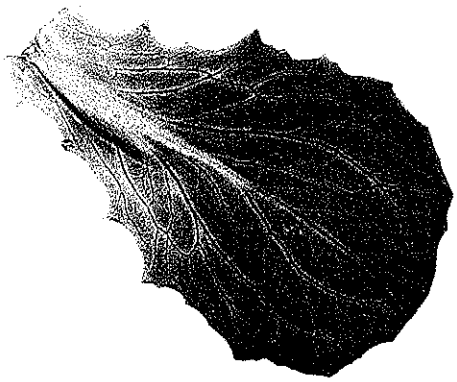
Trojan



Jupiter



Seagreen



Hallmark W

Photocopy of the fourth leaf from a 20 day old plant grown under continuous light at 20 degrees C.

Exhibit D

Additional Description of the Variety
Iceberg lettuce Trojan

Trojan is best described as a large framed, large headed vanguard type lettuce.

Trojan is a crisphead type lettuce best adapted for spring harvest in the California coastal production areas. Trojan was bred, screened, selected and developed to enable lettuce growers to produce marketable size lettuce in areas and periods when weather and diseases make it difficult for iceberg lettuce to develop into market size product, defined as "24's", or twenty four heads per carton.

Trojan carries the big vein resistance of the parental line Seagreen, with the textural qualities of the variety Grande. Big vein is expressed primarily as vein clearing and stiffening of the outer leaves giving the plant a bushy appearance. Symptoms are most commonly expressed during periods of low air temperature and in heavy wet soils.

The color of Trojan most closely resembles Seagreen, the pollen parent. The leaf reflectance of Seagreen is dull, whereas the reflectance of Grande is slightly glossy, most similar to the variety Salinas. The varieties Pacific, Spreckels, Cannery Row, Big Ben, Jupiter, Sharpshooter and Sniper are all "Salinas" type lettuces, with a glossy leaf reflectance. The leaf color/reflectance of Trojan more closely resembles Seagreen and Del Rey.

Trojan leaf color is 143B on the royal Horticultural Colour Chart. Del Rey leaf color is 143A.

Seed color of Trojan is tan. Seed color of Grande and Seagreen is black. Seed color of Del Rey is black.

In seed production, Trojan stem elongation and bolting is similar to Seagreen. Days to six inch seed stem elongation is approximately 56 days from germination. Grande bolts faster than Trojan, and will produce a six inch stalk in 53 days.

Paragon Seed, Inc.

Trial Protocol for 'Trojan' Intellectual Property Rights Data

Seed samples of parental lines and competitive varieties were prepared in the laboratory for field plantings.

Primary planting/harvest slots were targeted, as described in various Exhibits for which the new variety was developed, and disease pressure (Big Vein) could best be evaluated. In the case of Trojan and its resistance to Big Vein, trials were planned for early spring harvest in the coastal production areas of California.

Commercial plantings were located by contacting commercial growers and requesting space for trial plantings. Trials were strategically planted in a 75 mile stretch, ranging from the edge of the Pacific Ocean near Castroville to San Ardo on the southern tip of the Salinas Valley.

The varieties were planted in thirty foot strips in commercial plantings, and grown to harvest maturity using usual and customary lettuce production practices.

Between rosette and the heading stage, plantings were evaluated for presence of Big Vein. Big Vein plants were identified by the presence of vein clearing. Plants showing symptoms were rated "1", and plants with no symptoms were rated "0".

At the time of commercial harvest, cartons of lettuce (24 count) were cut, packed and returned to the laboratory where individual heads are measured for circumference, weight, solidity and core height.

The data was collected to compare statistically the actual range of 24 values for sum, mean, maximum value, minimum value, variance, standard deviation, and joint degrees of freedom. The Level of Significance was determined by using Excel 5's 2-tail type 2 built in T-Test function directly over the ranges of data.

Color measurements were also conducted in each of the trial plantings using the Royal Horticultural Colour Charts for the subject varieties Trojan and Seagreen.

Trojan

2005 Big Vein Resistance Trial Counts

Trial	Plant	Harvest	Area	*Days to Maturity* Trojan	Seagreen
1.	01.24.05	05.02.05	San Ardo	98	100
2.	02.03.05	04.27.05	Castroville	83	85
3.	02.05.05	05.07.05	Greenfield	92	94
4.	02.07.05	05.06.05	King City	89	90
5.	02.09.05	05.07.05	Soledad	87	88
6.	03.11.05	05.31.05	Salinas	8 0	81

"*Days to Maturity*" based on optimum solidity measurement of "3".
Solidity measurement of "1" is soft, able to crush head with moderate pressure.
Solidity measurement of "3" is optimum maturity; head firm, with very slight give.
Solidity measurement of "5" is over mature, possible cracked ribs and no gives when pressure applied to the head.

200000269 JRM Replaced as of 9/19/05

Trojan

Solidity, Circumference, Weight, Core Height.

2005 Big Vein Resistance Trial Counts

(Average of 24 heads)

Trial			*Solidity* (1 – 5)	*Circumference* (cm's)	*Weight* (gm's)	*Core* (mm)
1	San Ardo	Trojan	3.09	50.33	758.3	42.5
		Seagreen	2.97	48.98	739.58	48.7
T Test Confidence level:			**98%**	**100%**	**97%**	**100%**
2	Castroville	Trojan	3.04	49.29	740.63	39. 0
		Seagreen	2.89	48.44	719.79	46.2
T Test Confidence level:			**99%**	**99%**	**99%**	**100%**
3	Greenfield	Trojan	2.98	48.44	736.46	37.3
		Seagreen	2.86	47.69	719.79	39.5
T Test Confidence level:			**97%**	**99%**	**98%**	**91%**
4	King City	Trojan	3.08	49.29	756.25	37.5
		Seagreen	2.95	48.50	731.25	39.5
T Test Confidence level:			**99%**	**99%**	**99%**	**94%**
5	Soledad	Trojan	3.08	48.33	723.96	36.7
		Seagreen	2.98	47.85	701.04	38.5
T Test Confidence level:			**99%**	**99%**	**99%**	**91%**
6	Salinas	Trojan	3.11	49.56	754.17	37.5
		Seagreen	3.03	48.93	718.75	39.8
T Test Confidence level:			***90%***	***99%***	***99%***	***97%***

trovseaCO

PARAGON SEED COMPANY

P.O. Box 1906 Salinas, Ca. 93902 831-753-2100

Trojan vs Seagreen

San Ardo, California Cherry Orchard Plant 01.24.05 Harvest date : 05.02.05

	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen
	Solidity	Solidity	Circum	Circum	Weight	Weight	Core Ht	Core Ht
Count	24	24	24	24	24	24	24	24
Sum	74.3	71.3	1,208.0	1,175.5	18,200.0	17,750.0	1,019.00	1,168.00
Mean	3.09	2.97	50.33	48.98	758.33	739.58	42.46	48.67
Maximum Value	3.5	3.5	51.5	50.0	825.0	800.0	51.00	57.00
Minimum Value	3.0	2.5	49.5	48.0	700.0	675.0	38.00	38.00
Variance	0.03	0.03	0.30	0.53	905.80	701.99	26.95	18.14
Std.Dev	0.18	0.19	0.55	0.73	30.10	26.50	5.19	4.26
Joint Variance	*****	0.03	*****	0.41	*****	803.89	*****	22.55
Jt Deg of Freedom	*****	46	*****	46	*****	46	*****	46.00
t-Test Parameter	*****	2.386	*****	7.285	*****	2.291	*****	4.53
Level of Significance	*****	.0212	*****	.0000	*****	.0266	*****	.0000
Confidence Level %	*****	97.877	*****	100.000	*****	97.340	*****	100.00
	1-5	1-5	Cm's	Cm's	Grams	Grams	Inches	Inches
MEASUREMENTS FOR SAMPLES	3.0	3.0	51.0	50.0	775	750	51.00	51.00
	3.0	3.0	50.5	49.5	775	775	44.00	51.00
	3.0	3.0	51.0	50.0	800	750	44.00	51.00
	3.0	3.0	50.0	49.5	750	725	38.00	44.00
Solidity measured on a scale of 1 to 5	3.0	3.0	50.0	48.0	800	750	38.00	51.00
	3.5	2.8	50.0	48.0	825	700	38.00	44.00
	3.0	3.0	50.0	48.5	800	750	51.00	51.00
	3.0	3.0	50.5	48.0	725	725	44.00	51.00
Note: The Level of Significance is determined by using Excel 5's 2-tail type 2 built in T-test function directly over the ranges of data.	3.0	3.0	51.0	48.5	750	675	44.00	51.00
	3.3	3.0	50.0	49.0	800	750	38.00	51.00
	3.0	3.5	50.0	50.0	750	800	44.00	57.00
	3.0	3.0	50.0	49.0	700	725	44.00	51.00
	3.0	3.0	50.5	48.0	750	725	38.00	51.00
	3.0	2.5	51.0	48.5	750	700	38.00	38.00
	3.3	2.5	51.0	48.0	750	725	51.00	44.00
	3.0	3.0	50.0	48.5	750	750	38.00	51.00
	3.0	3.0	50.0	48.5	725	750	38.00	51.00
	3.3	3.0	51.0	49.5	750	750	51.00	51.00
	3.0	3.0	49.5	50.0	750	750	38.00	51.00
	3.0	3.0	50.0	49.5	775	750	38.00	44.00
	3.0	3.0	50.0	50.0	750	775	38.00	51.00
	3.5	3.0	51.5	49.0	750	750	51.00	44.00
	3.0	3.0	49.5	49.0	725	725	38.00	44.00
	3.5	3.0	50.0	49.0	725	725	44.00	44.00

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troseacast

PARAGON SEED COMPANY

P.O. Box 1906 Salinas, Ca. 93902 831-753-2100

Trojan vs Seagreen

Castroville, Ca. Spiegle Ranch 02.03.05 **Harvest date : 04.27.05**

	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen
	Solidity	Solidity	Circum	Circum	Weight	Weight	Core Ht	Core Ht
Count	24	24	24	24	24	24	24	24
Sum	73.0	69.3	1,183.0	1,162.5	17,775.0	17,275.0	936.00	1,109.00
Mean	3.04	2.89	49.29	48.44	740.63	719.79	39.00	46.21
Maximum Value	3.5	3.3	51.0	49.5	800.0	775.0	51.00	51.00
Minimum Value	2.8	2.0	48.0	47.0	700.0	675.0	25.00	25.00
Variance	0.02	0.06	0.43	0.35	587.64	542.35	19.91	39.30
Std.Dev	0.14	0.24	0.66	0.60	24.24	23.29	4.46	6.27
Joint Variance	*****	0.04	*****	0.39	*****	564.99	*****	29.61
Jt Deg of Freedom	*****	46	*****	46	*****	46	*****	46.00
t-Test Parameter	*****	2.713	*****	4.715	*****	3.036	*****	4.59
Level of Significance	*****	.0093	*****	.0000	*****	.0039	*****	.0000
Confidence Level %	*****	99.065	*****	99.998	*****	99.606	*****	100.00
	1-5	1-5	Cm's	Cm's	Grams	Grams	Inches	Inches
MEASUREMENTS FOR SAMPLES	3.0	3.0	49.5	49.0	725	700	38.00	44.00
	3.0	2.8	49.0	48.5	700	700	38.00	51.00
	3.0	3.0	49.0	49.0	750	725	44.00	51.00
	3.0	3.0	50.0	48.0	725	700	38.00	44.00
Solidity measured on a scale of 1 to 5	2.8	3.0	48.0	48.5	700	725	38.00	51.00
	3.0	2.8	48.5	49.0	775	750	25.00	44.00
	3.0	3.0	48.0	49.5	750	775	38.00	44.00
	3.0	3.0	49.0	49.0	750	700	38.00	44.00
Note: The Level of Significance is determined by using Excel 5's 2-tail type 2 built in T-test function directly over the ranges of data.	3.0	3.0	49.5	49.0	750	700	38.00	51.00
	3.0	3.0	49.0	48.5	750	700	38.00	51.00
	3.3	3.3	49.0	48.0	775	725	44.00	51.00
	3.0	3.0	49.5	48.0	725	700	38.00	51.00
	3.0	3.0	50.0	48.0	725	725	38.00	51.00
	3.0	2.8	50.0	47.5	750	675	38.00	38.00
	3.3	2.8	50.0	48.0	775	725	38.00	38.00
	3.0	2.0	49.5	47.0	725	700	38.00	25.00
	3.0	2.5	49.0	48.5	725	725	44.00	51.00
	3.3	2.8	51.0	48.0	800	750	51.00	51.00
	3.0	3.0	49.5	49.0	750	750	38.00	44.00
	3.0	3.0	49.0	48.5	725	725	38.00	44.00
	3.0	2.8	49.5	49.0	725	750	38.00	51.00
	3.5	3.0	49.0	48.0	750	725	38.00	44.00
	3.0	3.0	49.0	48.0	725	700	38.00	44.00
	3.0	3.0	49.5	49.0	725	725	44.00	51.00

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troseabas

PARAGON SEED COMPANY

P.O. Box 1906 Salinas, Ca. 93902 831-753-2100

Trojan vs Seagreen

Greenfield, Ca. Bassetti Ranch Germ 02.05.05 **Harvest date : 05.07.05**

	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen
	Solidity	Solidity	Circum	Circum	Weight	Weight	Core Ht	Core Ht
Count	24	24	24	24	24	24	24	24
Sum	71.5	68.8	1,162.5	1,144.5	17,675.0	17,275.0	895.00	947.00
Mean	2.98	2.86	48.44	47.69	736.46	719.79	37.29	39.46
Maximum Value	3.5	3.0	49.0	49.0	800.0	775.0	51.00	44.00
Minimum Value	2.5	2.5	47.5	47.0	700.0	675.0	32.00	25.00
Variance	0.03	0.03	0.31	0.26	488.00	596.69	17.78	20.78
Std.Dev	0.16	0.18	0.56	0.51	22.09	24.43	4.22	4.56
Joint Variance	*****	0.03	*****	0.28	*****	542.35	*****	19.28
Jt Deg of Freedom	*****	46	*****	46	*****	46	*****	46.00
t-Test Parameter	*****	2.307	*****	4.881	*****	2.479	*****	1.71
Level of Significance	*****	.0256	*****	.0000	*****	.0169	*****	.0941
Confidence Level %	*****	97.438	*****	99.999	*****	98.310	*****	90.59
	1-5	1-5	Cm's	Cm's	Grams	Grams	mm's	mm's
MEASUREMENTS FOR SAMPLES	3.0	3.0	49.0	48.0	725	725	38.00	38.00
	3.0	3.0	49.0	47.5	700	700	38.00	25.00
	3.0	3.0	48.5	47.5	725	725	38.00	32.00
	3.0	3.0	49.0	48.0	750	725	38.00	44.00
Solidity measured on a scale of 1 to 5	3.0	3.0	49.0	47.5	750	700	38.00	44.00
	2.5	3.0	48.5	48.0	725	700	32.00	38.00
	2.8	2.8	48.0	48.0	725	750	38.00	38.00
	3.0	2.8	48.0	47.0	750	700	38.00	38.00
Note: The Level of Significance is determined by using Excel 5's 2-tail type 2 built in T-test function directly over the ranges of data.	3.0	3.0	47.5	47.5	725	675	32.00	44.00
	3.0	3.0	49.0	48.0	775	700	44.00	38.00
	3.0	3.0	49.0	47.0	750	750	38.00	44.00
	2.8	2.8	48.0	48.0	725	725	32.00	38.00
	3.0	2.5	48.5	47.5	725	700	32.00	38.00
	3.0	2.8	49.0	48.0	750	700	38.00	44.00
	3.0	2.8	48.5	47.5	750	725	38.00	38.00
	3.0	2.5	49.0	47.0	750	700	38.00	38.00
	3.0	3.0	48.0	47.0	725	750	38.00	38.00
	3.5	3.0	47.5	47.5	800	700	51.00	38.00
	3.0	2.8	49.0	48.0	725	725	38.00	38.00
	3.0	3.0	48.0	48.5	725	750	38.00	44.00
	3.0	2.8	48.0	49.0	725	775	38.00	44.00
	3.0	3.0	47.5	48.0	700	750	32.00	44.00
	3.0	2.5	49.0	47.0	750	700	38.00	44.00
	3.0	3.0	48.0	47.5	725	725	32.00	38.00

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PARAGON SEED COMPANY

P.O. Box 1906 Salinas, Ca. 93902 831-753-2100

Trojan vs Seagreen

King City, Ca. Foletta Ranch Plant 02.07.05 Harvest date : 05.06.05

	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen
	Solidity	Solidity	Circum	Circum	Weight	Weight	Core Ht	Core Ht
Count	24	24	24	24	24	24	24	24
Sum	73.9	70.9	1,183.0	1,164.0	18,150.0	17,550.0	899.00	948.00
Mean	3.08	2.95	49.29	48.50	756.25	731.25	37.46	39.50
Maximum Value	3.5	3.0	51.0	49.5	800.0	775.0	44.00	44.00
Minimum Value	3.0	2.5	48.5	47.0	725.0	675.0	25.00	38.00
Variance	0.03	0.01	0.43	0.39	339.67	502.72	19.56	7.04
Std.Dev	0.16	0.12	0.66	0.63	18.43	22.42	4.42	2.65
Joint Variance	*****	0.02	*****	0.41	*****	421.20	*****	13.30
Jt Deg of Freedom	*****	46	*****	46	*****	46	*****	46.00
t-Test Parameter	*****	3.030	*****	4.272	*****	4.220	*****	1.94
Level of Significance	*****	.0040	*****	.0001	*****	.0001	*****	.0586
Confidence Level %	*****	99.600	*****	99.990	*****	99.989	*****	94.136
	1 - 5	1 - 5	Cm's	Cm's	Grams	Grams	Mm's	Mm's
MEASUREMENTS FOR SAMPLES	3.5	3.0	50.5	48.0	750	725	44.00	44.00
	3.0	3.0	50.0	48.0	775	750	38.00	38.00
	3.0	3.0	50.0	48.5	750	750	38.00	38.00
	3.0	3.0	49.0	49.0	750	725	25.00	38.00
Solidity measured on a scale of 1 to 5	3.0	3.0	49.5	49.5	775	750	44.00	44.00
	3.3	3.0	49.0	49.0	800	725	38.00	38.00
	3.0	2.8	49.0	48.0	750	700	32.00	38.00
	3.0	2.8	49.0	48.5	750	700	32.00	38.00
Note: The Level of Significance is determined by using Excel 5's 2-tail type 2 built in T-test function directly over the ranges of data.	3.0	3.0	49.5	49.0	750	725	38.00	38.00
	3.5	3.0	51.0	48.5	800	725	44.00	38.00
	3.0	3.0	49.0	49.0	750	750	38.00	38.00
	3.0	2.8	48.5	47.5	750	675	38.00	38.00
	3.0	3.0	49.0	48.0	725	725	38.00	44.00
	3.0	3.0	49.0	49.0	750	725	38.00	44.00
	3.0	3.0	49.5	48.5	750	750	38.00	38.00
	3.0	2.5	50.0	47.0	750	700	32.00	38.00
	3.0	3.0	50.0	48.0	750	750	38.00	38.00
	3.0	3.0	49.0	48.5	775	750	38.00	38.00
	3.0	3.0	48.5	49.0	750	775	38.00	38.00
	3.3	3.0	49.0	49.0	750	750	38.00	38.00
	3.0	3.0	48.5	48.0	725	725	44.00	44.00
	3.0	3.0	49.0	48.0	750	750	32.00	44.00
	3.0	3.0	49.0	49.0	750	725	38.00	38.00
	3.3	3.0	48.5	49.5	775	725	38.00	38.00

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PARAGON SEED COMPANY

P.O. Box 1906 Salinas, Ca. 93902 831-753-2100

Trojan vs Seagreen

Soledad, Ca. Major Farms Plant 02.09.05 **Harvest date : 05.07.05**

	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen
	Solidity	Solidity	Circum	Circum	Weight	Weight	Core Ht	Core Ht
Count	24	24	24	24	24	24	24	24
Sum	74.0	71.5	1,160.0	1,148.5	17,375.0	16,825.0	881.00	924.00
Mean	3.08	2.98	48.33	47.85	723.96	701.04	36.71	38.50
Maximum Value	3.5	3.0	49.5	49.0	750.0	725.0	44.00	44.00
Minimum Value	3.0	2.8	47.5	47.0	675.0	675.0	25.00	32.00
Variance	0.03	0.00	0.32	0.25	515.17	297.78	13.43	12.26
Std.Dev	0.16	0.07	0.56	0.50	22.70	17.26	3.67	3.50
Joint Variance	*****	0.02	*****	0.28	*****	406.48	*****	12.85
Jt Deg of Freedom	*****	46	*****	46	*****	46	*****	46.00
t-Test Parameter	*****	2.930	*****	3.114	*****	3.938	*****	1.73
Level of Significance	*****	.0053	*****	.0032	*****	.0003	*****	.0900
Confidence Level %	*****	99.473	*****	99.682	*****	99.972	*****	91.00
	1-5	1-5	Cm's	Cm's	Grams	Grams	Inches	Inches
MEASUREMENTS FOR SAMPLES	3.0	3.0	49.5	48.0	750	725	25.00	38.00
	3.0	3.0	49.0	48.0	725	700	38.00	38.00
	3.0	3.0	49.0	47.5	750	675	38.00	38.00
	3.0	3.0	48.5	48.0	700	725	38.00	38.00
Solidity measured on a scale of 1 to 5	3.0	2.8	48.0	47.0	725	675	38.00	44.00
	3.0	3.0	47.5	48.0	750	725	32.00	38.00
	3.0	3.0	48.0	47.5	675	700	38.00	38.00
	3.0	3.0	48.0	48.0	725	700	38.00	38.00
Note: The Level of Significance is determined by using Excel 5's 2-tail type 2 built in T-test function directly over the ranges of data.	3.5	3.0	49.0	49.0	725	725	38.00	44.00
	3.0	3.0	48.0	48.0	700	725	32.00	38.00
	3.3	3.0	48.0	47.5	700	700	38.00	38.00
	3.0	2.8	47.5	47.0	725	675	32.00	38.00
	3.0	3.0	48.0	48.5	700	700	38.00	44.00
	3.0	3.0	48.0	48.0	750	700	38.00	44.00
	3.5	3.0	49.0	47.5	750	700	38.00	32.00
	3.0	3.0	47.5	47.5	750	675	32.00	32.00
	3.0	3.0	48.0	48.0	700	700	38.00	38.00
	3.0	3.0	48.5	47.5	725	700	38.00	38.00
	3.3	3.0	48.0	48.0	725	700	38.00	38.00
	3.0	3.0	49.0	49.0	750	725	38.00	38.00
	3.0	3.0	48.5	47.5	725	675	38.00	32.00
	3.0	3.0	48.0	48.0	700	700	38.00	44.00
	3.3	3.0	49.0	47.5	750	700	44.00	38.00
	3.3	3.0	48.5	48.0	700	700	38.00	38.00

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PARAGON SEED COMPANY

P.O. Box 1906 Salinas, Ca. 93902 831-753-2100

Trojan vs Seagreen

Salinas, Ca. Bengard Spence Ranch Plant 03.11.05 Harvest date : 05.31.05

	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen
	Solidity	Solidity	Circum	Circum	Weight	Weight	Core Ht	Core Ht
Count	24	24	24	24	24	24	24	24
Sum	74.7	72.8	1,189.5	1,174.4	18,100.0	17,250.0	900.00	955.00
Mean	3.11	3.03	49.56	48.93	754.17	718.75	37.50	39.79
Maximum Value	3.5	3.3	51.0	50.0	825.0	800.0	44.00	51.00
Minimum Value	3.0	2.8	48.0	48.0	700.0	675.0	32.00	32.00
Variance	0.04	0.02	0.49	0.39	851.45	665.76	6.00	18.09
Std.Dev	0.19	0.13	0.70	0.63	29.18	25.80	2.45	4.25
Joint Variance	*****	0.03	*****	0.44	*****	758.61	*****	12.04
Jt Deg of Freedom	*****	46	*****	46	*****	46	*****	46.00
t-Test Parameter	*****	1.684	*****	3.288	*****	4.454	*****	2.29
Level of Significance	*****	.0989	*****	.0019	*****	.0001	*****	.0268
Confidence Level %	*****	90.109	*****	99.806	*****	99.995	*****	97.319
	1 - 5	1 - 5	Cm's	Cm's	Grams	Grams	Mm's	Mm's
MEASUREMENTS FOR SAMPLES	3.0	3.0	50.0	49.0	775	725	38.00	38.00
	3.5	3.0	49.5	49.5	750	725	38.00	38.00
	3.0	3.3	51.0	50.0	775	750	38.00	44.00
	3.0	3.0	49.5	49.5	725	725	38.00	38.00
Solidity measured on a scale of 1 to 5	3.0	3.0	50.0	49.0	800	700	38.00	44.00
	3.3	3.0	50.0	48.0	750	675	38.00	32.00
	3.0	3.0	49.0	49.0	725	725	38.00	38.00
	3.0	3.3	49.5	48.0	725	750	38.00	38.00
Note: The Level of Significance is determined by using Excel 5's 2-tail type 2 built in T-test function directly over the ranges of data.	3.5	3.0	50.0	49.0	775	725	32.00	44.00
	3.0	3.0	50.0	49.5	775	725	32.00	38.00
	3.0	3.3	50.5	50.0	750	800	38.00	51.00
	3.3	2.8	51.0	48.5	800	675	44.00	38.00
	3.0	3.0	49.5	49.5	725	700	38.00	44.00
	3.0	3.3	49.0	49.5	750	725	32.00	44.00
	3.0	3.0	49.5	49.0	750	725	38.00	38.00
	3.0	3.0	49.5	49.4	750	725	38.00	38.00
	3.0	3.0	49.0	48.0	725	700	38.00	38.00
	3.5	3.0	49.5	48.5	825	700	38.00	38.00
	3.3	3.0	48.5	48.0	750	700	38.00	38.00
	3.0	3.0	49.0	49.0	750	725	38.00	44.00
	3.3	3.0	49.0	49.0	775	725	38.00	32.00
	3.0	2.8	48.0	48.5	700	700	38.00	44.00
	3.0	3.0	49.5	49.0	750	725	38.00	38.00
	3.0	3.0	49.5	48.0	725	700	38.00	38.00

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Lettuce TROJAN

In 2006, three trials were planted in the Salinas Valley of California to evaluate the iceberg lettuce variety Trojan for 1) Big Vein Resistance, 2) Color comparisons, and 3) Size, Weight, and core height comparisons.

Trial 1

San Ardo, California Evaluation April 30, 2006

Big Vein Resistance		Confidence level T-Test
Trojan	3/24 plants infected	
Seagreen	7/24 plants infected	83 %
Jupiter	15/24 plants infected	99 %

Colour Measurement

Based on Royal Horticultural Chart measurement of twenty four plants.

Trojan	143 B
Seagreen	143 A

Size Comparison

	Solidity	Circumference	Weight	Core Height
Trojan	3.1	48.58 cms	745 gms	36.5 mm
Seagreen	2.90	47.90 cms	733 gms	38.8 mm
Confidence level T - Test	99%	99 %	96 %	99 %

Lettuce TROJAN

In 2006, three trials were planted in the Salinas Valley of California to evaluate the iceberg lettuce variety Trojan for 1) Big Vein Resistance, 2) Color comparisons, and 3) Size, Weight, and core height comparisons.

Trial 2

Castroville, California Evaluation May 05, 2006

Big Vein Resistance		Confidence level T-Test
Trojan	5/24 plants infected	
Jupiter	22/24 plants infected	100 %

Colour Measurement

Based on Royal Horticultural Chart measurement of twenty four plants.

Trojan	143 B
Seagreen	143 A

Size Comparison

	Solidity	Circumference	Weight	Core Height
Trojan	3.0	47.90 cms	745 gms	26.4 mm
Seagreen	2.85	47.46 cms	728 gms	29.4 mm
Confidence level T - Test	95%	99 %	99 %	95 %

Lettuce TROJAN

In 2006, three trials were planted in the Salinas Valley of California to evaluate the iceberg lettuce variety Trojan for 1) Big Vein Resistance, 2) Color comparisons, and 3) Size, Weight, and core height comparisons.

Trial 3

Greenfield, California Evaluation May 22, 2006

Big Vein Resistance		Confidence level T-Test
Trojan	2/24 plants infected	
Jupiter	8/24 plants infected	96 %
Seagreen	6/24 plants infected	87 %

Colour Measurement

Based on Royal Horticultural Chart measurement of twenty four plants.

Trojan	143 B
Seagreen	143 A

Size Comparison

	Solidity	Circumference	Weight	Core Height
Trojan	3.14	48.79 cms	783 gms	38.1 mm
Seagreen	2.99	47.49 cms	750 gms	39.1 mm
Confidence level T - Test	99%	99 %	99 %	90%

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Trojan vs Seagreen

Spring 2006 Glau Ranch, San Ardo California **Harvest date : 04.30.06**

	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen
	Solidity	Solidity	Circum	Circum	Weight	Weight	Core Ht	Core Ht
Count	24	24	24	24	24	24	24	24
Sum	74.5	69.5	1,166.0	1,149.5	17,900.0	17,600.0	34.50	36.75
Mean	3.10	2.90	48.58	47.90	745.83	733.33	1.44	1.53
Maximum Value	4.0	3.0	49.5	48.5	775.0	750.0	1.50	1.75
Minimum Value	3.0	2.0	47.5	47.0	700.0	700.0	1.25	1.25
Variance	0.06	0.05	0.25	0.17	416.67	362.32	0.01	0.01
Std.Dev	0.25	0.23	0.50	0.42	20.41	19.03	0.11	0.11
Joint Variance	*****	0.06	*****	0.21	*****	389.49	*****	0.01
Jt Deg of Freedom	*****	46	*****	46	*****	46	*****	46.00
t-Test Parameter	*****	2.963	*****	5.154	*****	2.194	*****	2.92
Level of Significance	*****	.0048	*****	.0000	*****	.0333	*****	.0055
Confidence Level %	*****	99.519	*****	99.999	*****	96.668	*****	99.45
	1-5	1-5	Cm's	Cm's	Grams	Grams	Inches	Inches
MEASUREMENTS FOR SAMPLES	3.0	3.0	48.0	48.0	750	750	1.25	1.75
	3.0	3.0	48.5	47.5	775	725	1.25	1.50
	3.0	3.0	49.0	48.0	750	750	1.25	1.50
	3.0	2.8	49.0	47.5	725	700	1.50	1.50
Solidity measured on a scale of 1 to 5	3.0	3.0	47.5	48.0	700	725	1.50	1.50
	3.0	3.0	48.0	48.5	725	750	1.25	1.75
	3.5	3.0	48.5	48.0	750	750	1.50	1.50
	3.0	3.0	49.0	47.5	775	700	1.50	1.25
Note: The Level of Significance is determined by using Excel 5's 2-tail type 2 built in T-test function directly over the ranges of data.	3.0	3.0	48.5	48.0	750	750	1.50	1.50
	3.0	2.5	48.0	47.0	725	700	1.50	1.50
	3.5	3.0	49.0	48.0	750	750	1.50	1.75
	3.0	3.0	48.5	48.5	750	750	1.25	1.50
	3.0	3.0	48.5	48.0	750	750	1.25	1.50
	3.0	3.0	49.0	48.0	775	725	1.50	1.50
	3.0	2.8	48.0	47.5	725	725	1.50	1.50
	3.0	3.0	49.0	48.0	750	750	1.50	1.50
	3.0	2.8	48.0	47.5	750	750	1.50	1.50
	3.5	3.0	49.0	48.0	775	725	1.50	1.50
	3.0	3.0	49.0	48.0	750	725	1.50	1.50
	3.0	3.0	49.5	48.5	725	750	1.50	1.75
	3.0	2.8	48.5	48.0	725	750	1.50	1.50
	3.0	2.0	49.0	47.0	775	700	1.50	1.50
	4.0	3.0	49.0	48.0	750	725	1.50	1.50
	3.0	3.0	48.0	48.5	725	725	1.50	1.50

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Trojan vs Jupiter 0=resistant 1=susceptible

Spring 2006 Glau Ranch, San Ardo California **Harvest date : 04.30.06**

	Trojan	Jupiter	Trojan	Seagreen				
	Big Vein	Big Vein	Big Vein	Big Vein				
Count	24	24	24	24				
Sum	3.0	15.0	3.0	7.0				
Mean	0.13	0.63	0.13	0.29				
Maximum Value	1.0	1.0	1.0	1.0				
Minimum Value	0.0	0.0	0.0	0.0				
Variance	0.11	0.24	0.11	0.22				
Std.Dev	0.34	0.49	0.34	0.46				
Joint Variance	*****	0.18	*****	0.16				
Jt Deg of Freedom	*****	46	*****	46				
t-Test Parameter	*****	4.090	*****	1.422				
Level of Significance	*****	.0002	*****	.1618				
Confidence Level %	*****	99.983	*****	83.822				
MEASUREMENTS FOR SAMPLES	.0	1.0	.0	1.0				
	.0	1.0	.0	.0				
	.0	1.0	.0	.0				
	.0	.0	.0	.0				
Solidity measured on a scale of 1 to 5	.0	.0	.0	1.0				
	.0	1.0	.0	.0				
	.0	1.0	.0	.0				
	.0	1.0	.0	.0				
	.0	1.0	.0	.0				
Note: The Level of Significance is determined by using Excel 5's 2-tail type 2 built in T-test function directly over the ranges of data.	.0	1.0	.0	.0				
	.0	.0	.0	1.0				
	.0	.0	.0	1.0				
	.0	.0	.0	.0				
	1.0	1.0	1.0	1.0				
	.0	1.0	.0	.0				
	.0	1.0	.0	.0				
	.0	1.0	.0	.0				
	.0	.0	.0	.0				
	.0	.0	.0	.0				
	1.0	.0	1.0	.0				
	.0	.0	.0	.0				
	.0	1.0	.0	.0				
	1.0	1.0	1.0	1.0				
	.0	1.0	.0	1.0				

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Trojan vs Seagreen RHS Color Comparison

Spring 2006 Glau Ranch, San Ardo California **Harvest date : 04.30.06**

	Trojan	Seagreen
	RHS	RHS
Count		
Sum		
Mean		
Maximum Value		
Minimum Value		
Variance		
Std.Dev		
Joint Variance		
Jt Deg of Freedom		
t-Test Parameter		
Level of Significance		
Confidence Level %		
MEASUREMENTS FOR SAMPLES	143B	143A
	143B	143A
	143B	143A
	143B	143A
Solidity measured on a scale of 1 to 5	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A

Note: The Level of Significance is determined by using Excel 5's 2-tail type 2 built in T-test function directly over the ranges of data.

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P.O. Box 1906 Salinas, Ca. 93902-1906 831-753-2100

Trojan vs Seagreen

Spring 2006 Fuji Ranch Castroville, California **Harvest date : 05.15.2006**

	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen
	Solidity	Solidity	Circum	Circum	Weight	Weight	Core Ht	Core Ht
Count	24	24	24	24	24	24	24	24
Sum	72.0	68.5	1,149.5	1,139.0	17,900.0	17,475.0	25.00	27.75
Mean	3.00	2.85	47.90	47.46	745.83	728.13	1.04	1.16
Maximum Value	3.5	3.0	49.0	48.5	775.0	750.0	1.50	2.00
Minimum Value	2.0	2.5	47.0	46.5	700.0	700.0	0.75	1.00
Variance	0.08	0.04	0.22	0.28	362.32	234.38	0.02	0.05
Std.Dev	0.28	0.21	0.47	0.53	19.03	15.31	0.14	0.23
Joint Variance	*****	0.06	*****	0.25	*****	298.35	*****	0.04
Jt Deg of Freedom	*****	46	*****	46	*****	46	*****	46.00
t-Test Parameter	*****	2.070	*****	3.038	*****	3.551	*****	2.07
Level of Significance	*****	.0441	*****	.0039	*****	.0009	*****	.0437
Confidence Level %	*****	95.591	*****	99.608	*****	99.910	*****	95.63
	1-5	1-5	Cm's	Cm's	Grams	Grams	Inches	Inches
MEASUREMENTS FOR SAMPLES	3.3	2.5	48.5	47.0	725	725	1.00	1.00
	3.0	2.5	47.0	47.0	700	725	1.00	1.25
	3.0	2.8	47.5	47.5	725	750	1.00	1.00
	3.0	3.0	48.0	47.0	750	725	1.00	1.25
Solidity measured on a scale of 1 to 5	3.3	3.0	48.5	48.0	750	725	1.00	1.00
	3.5	3.0	49.0	48.0	775	725	1.50	1.00
	3.0	3.0	48.0	47.0	725	700	1.00	1.00
	3.0	3.0	48.0	47.5	750	725	1.00	1.25
Note: The Level of Significance is determined by using Excel 5's 2-tail type 2 built in T-test function directly over the ranges of data.	3.0	3.0	47.5	48.0	750	725	1.00	1.25
	3.0	3.0	48.0	47.0	750	725	1.00	1.25
	3.0	2.8	48.0	47.0	750	725	1.00	1.00
	3.0	3.0	48.0	48.0	750	750	1.00	1.00
	3.0	3.0	47.5	47.0	750	725	1.00	1.50
	3.0	3.0	48.0	48.0	775	750	1.00	1.00
	3.0	3.0	48.0	47.5	750	725	1.00	1.00
	2.8	2.8	47.5	47.0	725	700	0.75	1.00
	3.0	2.5	48.0	46.5	750	700	1.25	1.00
	3.0	3.0	48.0	48.0	750	725	1.25	1.25
	2.8	3.0	47.5	48.0	750	750	1.00	1.00
	2.0	2.5	47.0	47.0	725	750	1.00	2.00
	3.0	2.8	48.5	47.5	725	725	1.00	1.25
	3.0	3.0	48.0	47.0	775	725	1.25	1.25
	3.5	3.0	47.5	48.0	750	725	1.00	1.00
	3.0	2.5	48.0	48.5	775	750	1.00	1.25

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P.O. Box 1906 Salinas, Ca. 93902-1906 831-753-2100

Trojan vs Jupiter 0=resistant 1=susceptible

Spring 2006 Fuji Ranch, Castroville California **Harvest date : 05.15.2006**

	Trojan	Jupiter
	Big Vein	Big Vein
Count	24	24
Sum	5.0	22.0
Mean	0.21	0.92
Maximum Value	1.0	1.0
Minimum Value	0.0	0.0
Variance	0.17	0.08
Std.Dev	0.41	0.28
Joint Variance	*****	0.13
Jt Deg of Freedom	*****	46
t-Test Parameter	*****	6.915
Level of Significance	*****	.0000
Confidence Level %	*****	100.000
	1-5	1-5
MEASUREMENTS FOR SAMPLES	1.0	1.0
	.0	1.0
	.0	1.0
	1.0	1.0
Solidity measured on a scale of 1 to 5	.0	1.0
	.0	1.0
	.0	1.0
	.0	1.0
	.0	1.0
Note: The Level of Significance is determined by using Excel 5's 2-tail type 2 built in T-test function directly over the ranges of data.	.0	1.0
	.0	1.0
	.0	1.0
	.0	1.0
	.0	1.0
	1.0	1.0
	.0	1.0
	.0	1.0
	.0	1.0
	.0	.0
	.0	1.0
	1.0	1.0
	.0	.0
	.0	1.0
	1.0	1.0
	.0	1.0

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P.O. Box 1906 Salinas, Ca. 93902-1906 831-753-2100

Trojan vs Seagreen RHS Color Comparison

Spring 2006 Fuji Ranch, Castroville California **Harvest date : 05.15.2006**

	Trojan	Seagreen
	RHS	RHS
Count		
Sum		
Mean		
Maximum Value		
Minimum Value		
Variance		
Std.Dev		
Joint Variance		
Jt Deg of Freedom		
t-Test Parameter		
Level of Significance		
Confidence Level %		
MEASUREMENTS	143B	143A
FOR	143B	143A
SAMPLES	143B	143A
	143B	143A
Solidity measured	143B	143A
on a scale of	143B	143A
1 to 5	143B	143A
	143B	143A
Note:	143B	143A
The Level of	143B	143A
Significance is	143B	143A
determined by	143B	143A
using Excel 5's	143B	143A
2-tail type 2	143B	143A
built in T-test	143B	143A
function directly	143B	143A
over the	143B	143A
ranges of data.	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A

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P.O. Box 1906 Salinas, Ca. 93902-1906 831-753-2100

Trojan vs Seagreen

Spring 2006 Panziera Ranch Greenfield, California Harvest date : 05.22.2006

	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen	Trojan	Seagreen
	Solidity	Solidity	Circum	Circum	Weight	Weight	Core Ht	Core Ht
Count	24	24	24	24	24	24	24	24
Sum	75.3	71.8	1,171.0	1,151.5	18,800.0	18,000.0	36.00	37.00
Mean	3.14	2.99	48.79	47.98	783.33	750.00	1.50	1.54
Maximum Value	3.5	3.3	50.0	49.0	825.0	800.0	1.50	1.75
Minimum Value	3.0	2.8	48.0	47.0	750.0	700.0	1.50	1.25
Variance	0.04	0.01	0.35	0.23	525.36	543.48	0.00	0.01
Std.Dev	0.19	0.09	0.59	0.48	22.92	23.31	0.00	0.12
Joint Variance	*****	0.02	*****	0.29	*****	534.42	*****	0.01
Jt Deg of Freedom	*****	46	*****	46	*****	46	*****	46.00
t-Test Parameter	*****	3.332	*****	5.255	*****	4.995	*****	1.70
Level of Significance	*****	.0017	*****	.0000	*****	.0000	*****	.0967
Confidence Level %	*****	99.829	*****	100.000	*****	99.999	*****	90.33
	1-5	1-5	Cm's	Cm's	Grams	Grams	Inches	Inches
MEASUREMENTS FOR SAMPLES	3.0	3.0	49.0	49.0	800	750	1.50	1.75
	3.0	3.0	48.5	48.5	775	750	1.50	1.50
	3.5	3.0	49.0	48.0	800	725	1.50	1.50
	3.0	3.0	49.0	47.0	800	700	1.50	1.50
Solidity measured on a scale of 1 to 5	3.3	3.0	49.5	48.0	825	775	1.50	1.50
	3.3	3.0	48.0	48.0	800	750	1.50	1.50
	3.0	3.0	48.5	47.5	750	725	1.50	1.25
	3.0	3.0	48.0	49.0	800	800	1.50	1.75
Note: The Level of Significance is determined by using Excel 5's 2-tail type 2 built in T-test function directly over the ranges of data.	3.5	3.0	48.0	48.0	750	750	1.50	1.50
	3.3	3.0	48.5	47.5	775	725	1.50	1.50
	3.0	3.0	49.0	48.0	800	750	1.50	1.50
	3.0	2.8	48.0	47.5	775	725	1.50	1.50
	3.0	3.0	48.5	48.0	775	750	1.50	1.50
	3.0	3.0	49.0	48.0	800	775	1.50	1.50
	3.0	3.0	49.0	47.5	750	725	1.50	1.50
	3.3	3.0	50.0	48.0	825	775	1.50	1.75
	3.0	3.0	49.5	47.5	775	750	1.50	1.50
	3.0	3.0	49.0	48.0	775	775	1.50	1.50
	3.0	3.3	48.5	48.0	750	750	1.50	1.50
	3.3	3.0	50.0	48.0	800	750	1.50	1.75
	3.5	2.8	49.0	47.5	775	725	1.50	1.50
	3.0	3.0	48.5	48.0	775	750	1.50	1.75
	3.5	3.0	49.0	48.5	800	775	1.50	1.50
	3.0	3.0	48.0	48.5	750	775	1.50	1.50

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Trojan vs Seagreen RHS color Comparison

Spring 2006 Panziera Ranch Greenfield, California **Harvest date : 05.22.2006**

	Trojan	Seagreen
	RHS	RHS
Count		
Sum		
Mean		
Maximum Value		
Minimum Value		
Variance		
Std.Dev		
Joint Variance		
Jt Deg of Freedom		
t-Test Parameter		
Level of Significance		
Confidence Level %		
MEASUREMENTS	143B	143A
FOR	143B	143A
SAMPLES	143B	143A
	143B	143A
Solidity measured	143B	143A
on a scale of	143B	143A
1 to 5	143B	143A
	143B	143A
Note:	143B	143A
The Level of	143B	143A
Significance is	143B	143A
determined by	143B	143A
using Excel 5's	143B	143A
2-tail type 2	143B	143A
built in T-test	143B	143A
function directly	143B	143A
over the	143B	143A
ranges of data.	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A
	143B	143A

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PARAGON SEED INC.

P.O. Box 1906 Salinas, Ca. 93902-1906 831-753-2100

Trojan vs Seagreen 0=resistant 1=susceptible

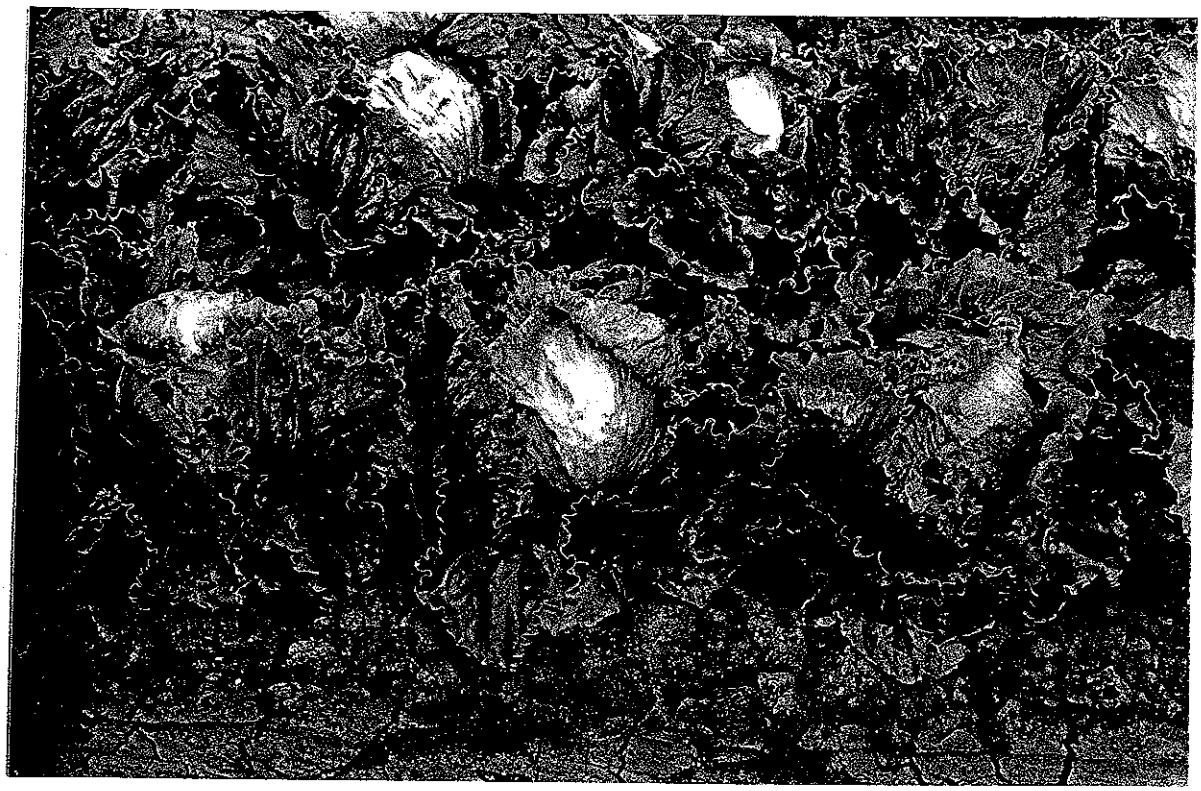
Spring 2006 Panziera Ranch Greenfield, California **Harvest date : 05.22.2006**

	Trojan	Jupiter	Trojan	Seagreen				
	Big Vein	Big Vein	Big Vein	Big Vein	Weight	Weight	Core Ht	Core Ht
Count	24	24	24	24				
Sum	2.0	8.0	2.0	6.0				
Mean	0.08	0.33	0.08	0.25				
Maximum Value	1.0	1.0	1.0	1.0				
Minimum Value	0.0	0.0	0.0	0.0				
Variance	0.08	0.23	0.08	0.20				
Std.Dev	0.28	0.48	0.28	0.44				
Joint Variance	*****	0.16	*****	0.14				
Jt Deg of Freedom	*****	46	*****	46				
t-Test Parameter	*****	2.194	*****	1.556				
Level of Significance	*****	.0333	*****	.1266				
Confidence Level %	*****	96.668	*****	87.343				
MEASUREMENTS FOR SAMPLES	.0	.0	.0	.0				
	.0	.0	.0	.0				
	.0	.0	.0	.0				
	.0	.0	.0	.0				
Solidity measured on a scale of 1 to 5	.0	.0	.0	1.0				
	.0	.0	.0	.0				
	.0	1.0	.0	.0				
	.0	1.0	.0	.0				
Note: The Level of Significance is determined by using Excel 5's 2-tail type 2 built in T-test function directly over the ranges of data.	.0	.0	.0	.0				
	.0	.0	.0	1.0				
	.0	.0	.0	1.0				
	.0	.0	.0	.0				
	.0	.0	.0	1.0				
	1.0	1.0	1.0	.0				
	.0	1.0	.0	.0				
	.0	.0	.0	.0				
	.0	1.0	.0	.0				
	.0	.0	.0	.0				
	.0	.0	.0	.0				
	.0	.0	.0	.0				
	.0	1.0	.0	.0				
	1.0	1.0	1.0	1.0				
	.0	1.0	.0	1.0				

3.2

Photographs Iceberg Lettuce TROJAN

1.	Spring 1999	Hageman Ranch Salinas, Ca.	Heads of Jupiter with Big Vein Trojan heading under severe pressure
2.	May, 1999	Hageman Ranch Salinas, Ca.	View of beds of Jupiter and Trojan
3.	May, 1999	Martella Ranch Salinas, Ca.	Silverado with Big Vein Bed of Trojan in field of Silverado
4.	June, 1999	American Farms Chualar, Ca.	Trojan trial in Sharpshooter
5.	April, 2000	Morosolli Ranch Soledad, Ca.	Heads of Sharpshooter and Trojan
6.	April, 2000	Spreckels Ranch Salinas, Ca.	Beds of Trojan and Spreckels Head of Trojan
7.	April, 2000	Spreckels Ranch Salinas, Ca.	Heads of Spreckels Head of Trojan
8.	May, 2000	Scattini Ranch Salinas, Ca.	Head of Trojan showing leaf margin
9.	May, 2000	Salmina Ranch	Comparison of Sharpshooter and Trojan color/leaf reflectance
10.	May, 2000	Salmina Ranch	Color differences
11.	May, 2000	Scattini Ranch Salinas, Ca.	Color differences between Spreckels and Trojan
12.	May 2000	Scattini Ranch Salinas, Ca,	Color difference and leaf reflectance differences between Spreckels and Trojan



Heads of Jupiter with big vein note thickened leaf and dark green sheen

Trojan under severe big vein pressure, occassional slight big vein *Hageman Ranch*

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Jupiter left Trojan right

Severe big vein in Jupiter

Trojan showing big vien resistane

Hageman Ranch Spring 1999

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Paragon Seed, Inc. Salinas, Ca. May, 1999

Heads of Silverado with big vein note thickened leaf and dark green sheen

One bed of Trojan in field of Silverado *Martella Ranch Salinas, Ca.*

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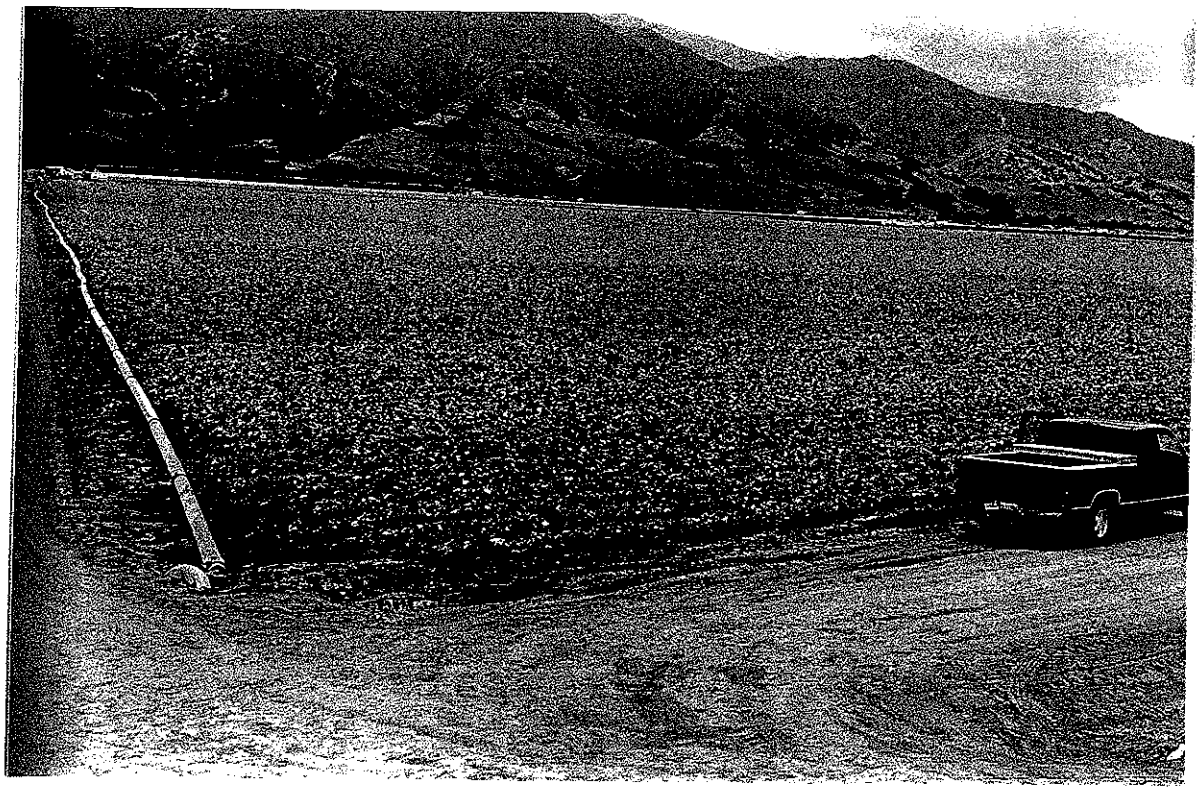
Paragon Seed, Inc. Salinas, Ca. June, 1999



TROJAN American Farms Ranch 1 12 beds field Sharpshooter

TROJAN American Farms Ranch #1 *Salinas, Ca.*

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2000

Paragon Seed, Inc. Soledad, Ca.. April, 2000

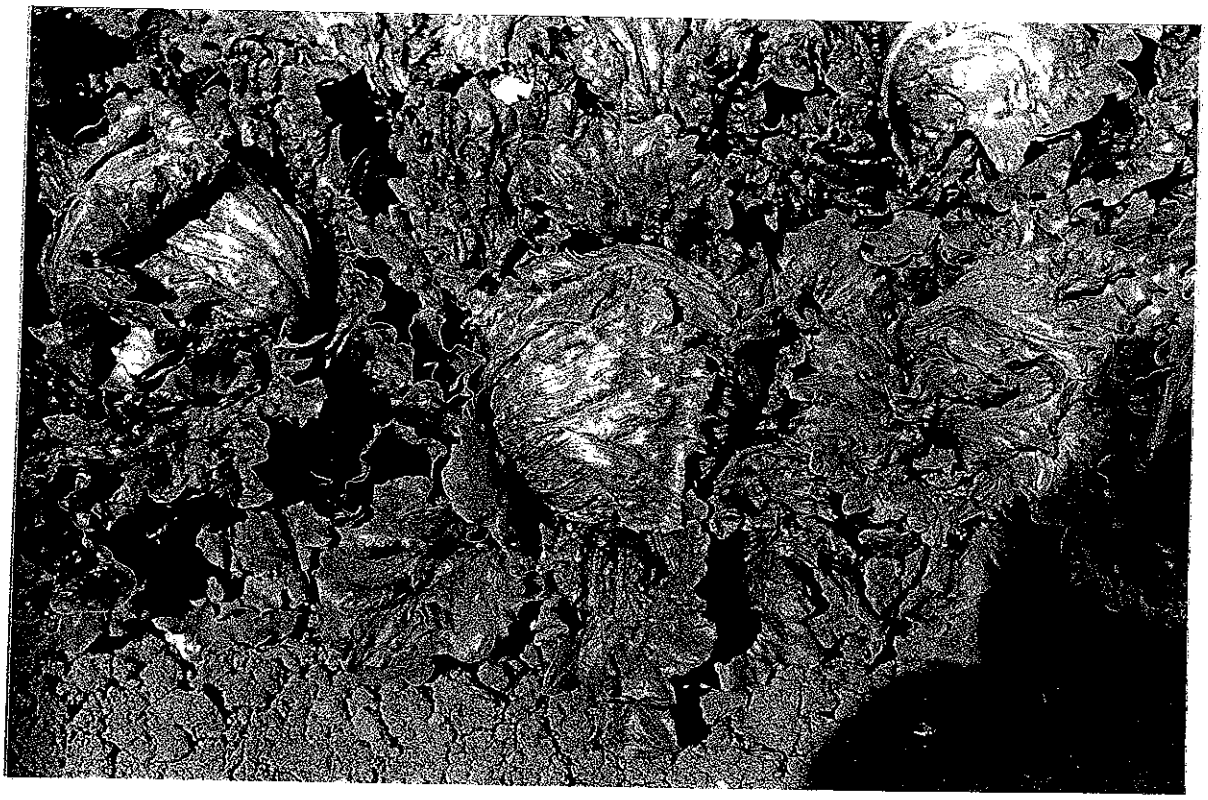
Sharpshooter

Iceberg Lettuce Trojan

Paragon Seed , Inc. Soledad, Ca.. April , 2000

Spreckels left Trojan right

Iceberg Lettuce Trojan



Spreckels

Iceberg Lettuce Trojan

TROJAN Scattini Ranch Salinas, California

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Sharpshooter (left) Trojan (right) Salmina Ranch Soledad, Ca.

view from east towards west note leaf reflectance

Sharpshooter (right) Trojan (left) Salmina Ranch Soledad, Ca.

Paragon Seed , Inc. Salinas, Ca.. May , 2000

Spreckels (left) Trojan (right) Scattini Ranch Salinas, Ca.

Iceberg Lettuce Trojan

Spreckels (right) Trojan (left) Scattini Ranch Salinas, Ca.

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EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Paragon Seed, Inc.	T 79	Trojan

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP, and Country)*	5. TELEPHONE *(include area code)*	6. FAX *(include area code)*
P. O. Box 1906 Salinas, California 93902-1906	831-753-2100	831-753-1470
	7. PVPO NUMBER	200000269

8. Does the applicant own all rights to the variety? *Mark an "X" in appropriate block.* If no, please explain. [X] YES [ ] NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company? [X] YES [ ] NO
If no, give name of country

10. Is the applicant the original owner? [X] YES [ ] NO *If no, please answer one of the following:*

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

[ ] YES [ ] NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?

[ ] YES [ ] NO If no, give name of country

11. Additional explanation on ownership *(if needed, use reverse for extra space)*:

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.

2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.

3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.